



LOCKWOOD PEDESTRIAN SAFETY DISTRICT



(406) 256-2701 // www.co.yellowstone.mt.gov/LockwoodSafety

Lockwood Pedestrian Safety District Advisory Board

Meeting Minutes recorded and submitted by Brandy Dangerfield

February 5, 2020 7pm

- **In attendance:** Board members – Nic Talmark, Woody Woods, Brandy Dangerfield, Carlotta Hecker, Pam Ask. Guests: Chuck Strum, Elyse Monat
- **Public Comment** – none
- **Handouts** – December and January Trail counts provided by Monat.
- **Non-Motorized Wayfinding Signage Plan** – County Planning Board presentation. Presented by Monat (attached).
- **Piccolo Lane Sidewalk** - Strum
 - Engineering Design Proposal (TO #10) – Board of County Commissioners approved
 - No response from Mr. Hannen regarding request to allow Interstate Engineering access to property to conduct necessary survey, Strum will write a letter to request again, running by Jeana Lervick, County Attorney for approval before sending.
- **Intercap Loan** - Talmark
 - \$50K still available (of original \$400K) expiring on 2/13
 - MDT bill came in for preliminary engineering services to Becraft Lane sidewalk project, so keep the loan open to pay potential bills
- **Becraft Lane Sidewalk – TA Project** - Talmark
 - No work being conducted in winter conditions.
- **Old Hardin Road sidewalk-Titan Segment flooding issue-** Strum
 - No update available, last contact was 1/2/2020.
- **Tedd/ Billings Bypass**
 - Woods: Lockwood representatives with BSED are presenting arguments against waiver of protest of annexation so that Lockwood Water & Sewer may proceed, at a work session, City Hall, Feb. 18, 2020, 5:30pm.
 - Most land owners in favor, a tax increase for them could be 20-80%.
- **Miscellaneous**
 - Consultant Report - Strum: no update
 - Trail Count Report – Monat: December and January
 - Talmark: New School Resource Officer at Lockwood Schools would like to attend LPSD board meetings.
- **Board Officer Elections**
 - President: Brandy Dangerfield nominated by Woody Woods, seconded by Nic Talmark, AIF.
 - Vice President: Woody Woods, nominated by Nic Talmark, seconded by Carlotta Hecker, AIF
 - Secretary: Carlotta Hecker, nominated by Woody Woods, seconded by Nic Talkmark, AIF
- **Next Meeting Date(s):** Wednesday, March 4th, 2020, 7pm. Lockwood School Primary Building meeting room.

###

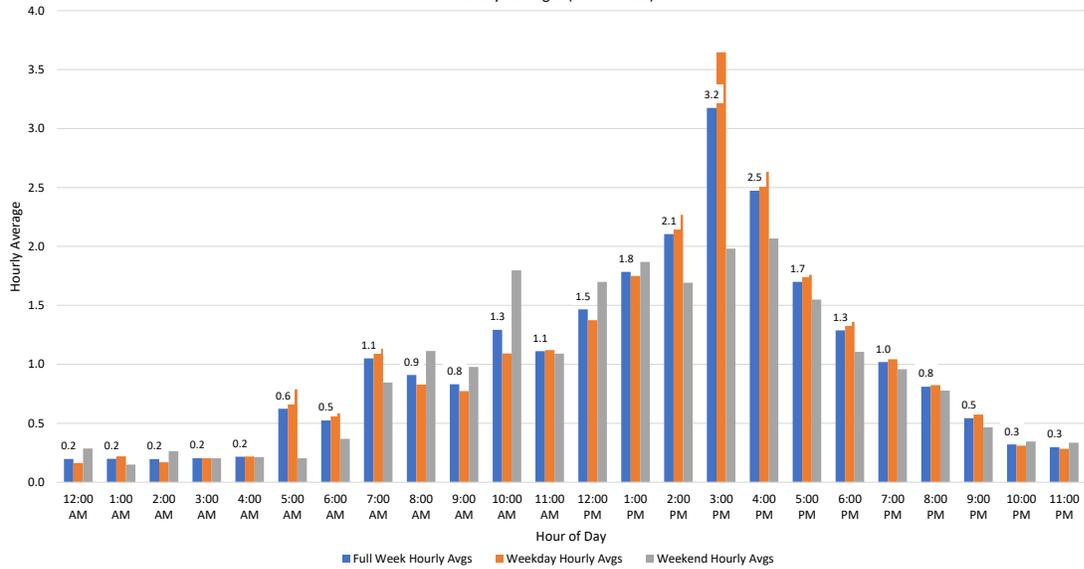
Sign-In Sheet – February 5, 2020

Name

Email (if you are new)

1. Vic TALMARK
2. Carlotta Hecker
3. Woody Woods
4. Pam Ask
5. Chuck STRYM
6. Elyse Munet
7. Brandi DANGERFIELD
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.

Highway 87 Sidewalk Hourly Averages (Since Install)

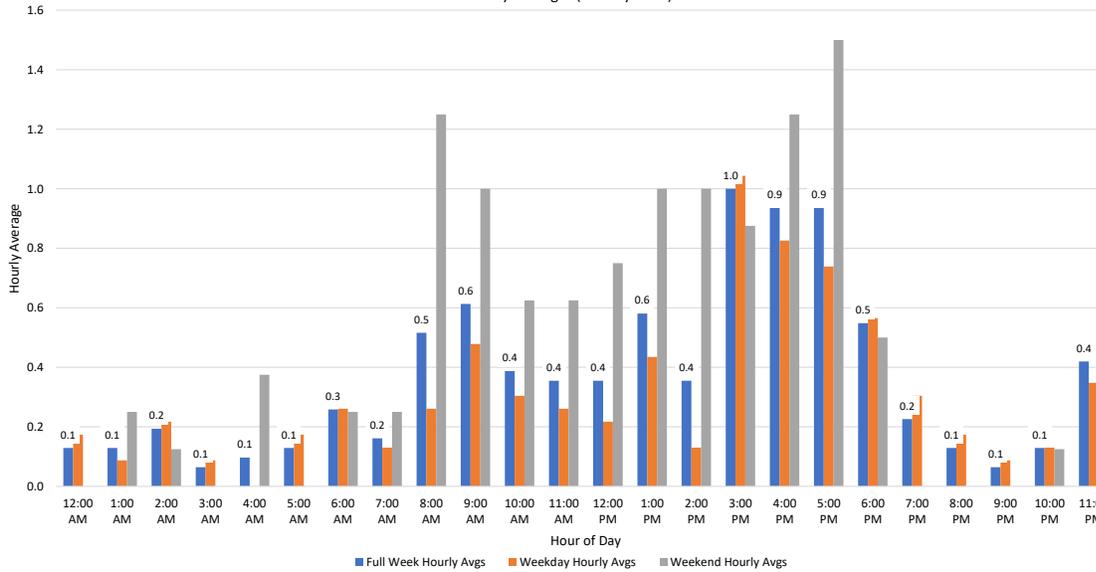


Hourly Statistics

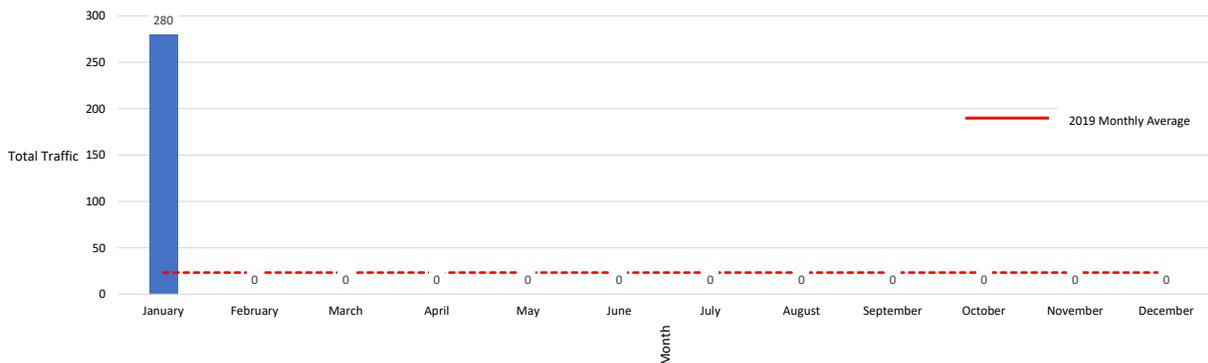
	Total	Month
Average	1.0	0.4
Median	0.9	0.3
STDV	0.8	0.3
Min	0.2	0.1
Max	3.2	1.0

Field Notes

Highway 87 Sidewalk Hourly Averages (January 2020)

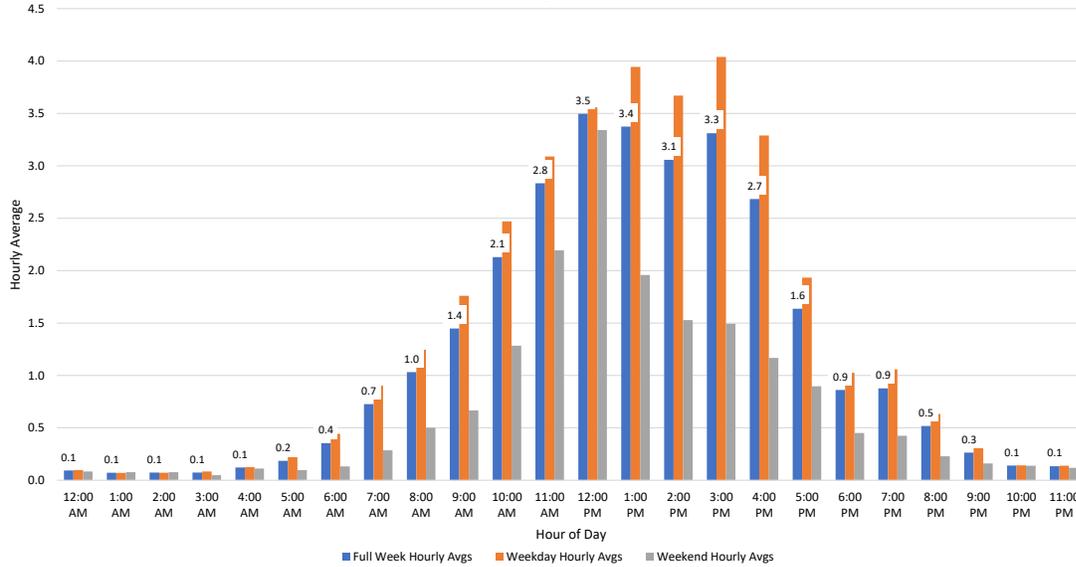


Highway 87 Sidewalk 2019 Traffic Count Totals



Site Name	Total Count	Average	Wk. Day Avg	Wk. End Avg	Min	Date w/ Min Total	Max	Date w/ Max Total
Highway 87	280	9	10	2	3	10-Jan	20	26-Jan

IGA (Old Hardin) Sidewalk
Hourly Averages (Since Install)

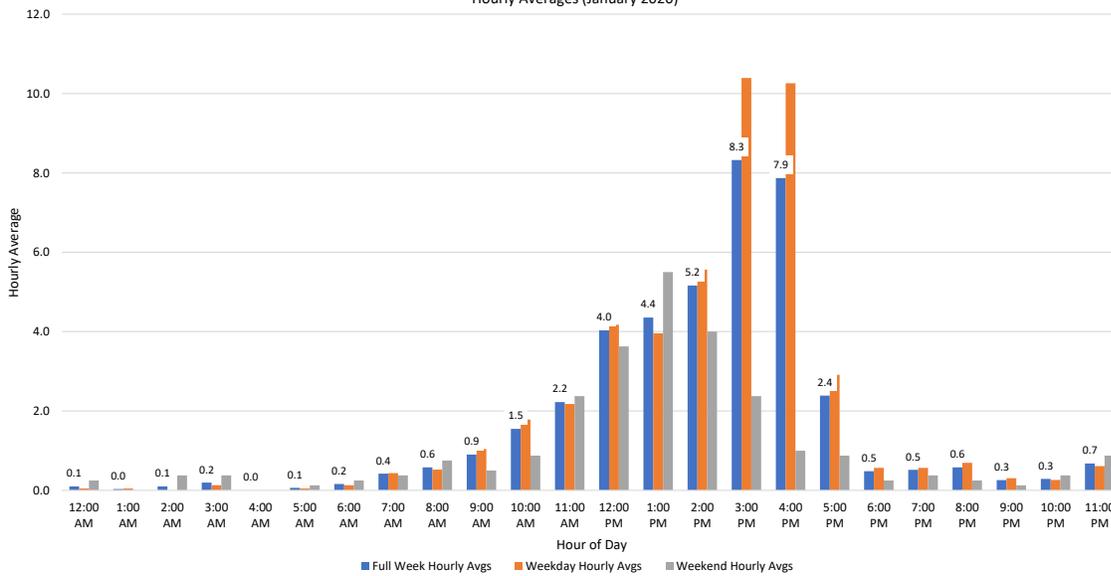


Hourly Statistics

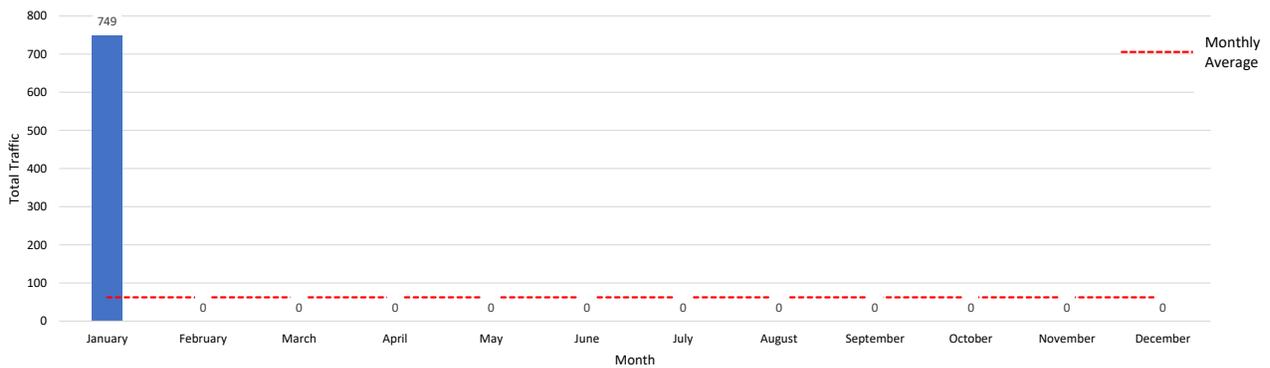
	Total	Month
Average	1.2	1.7
Median	0.8	0.5
STDV	1.2	2.5
Min	0.1	0.0
Max	3.5	8.3

Field Notes

IGA (Old Hardin) Sidewalk
Hourly Averages (January 2020)

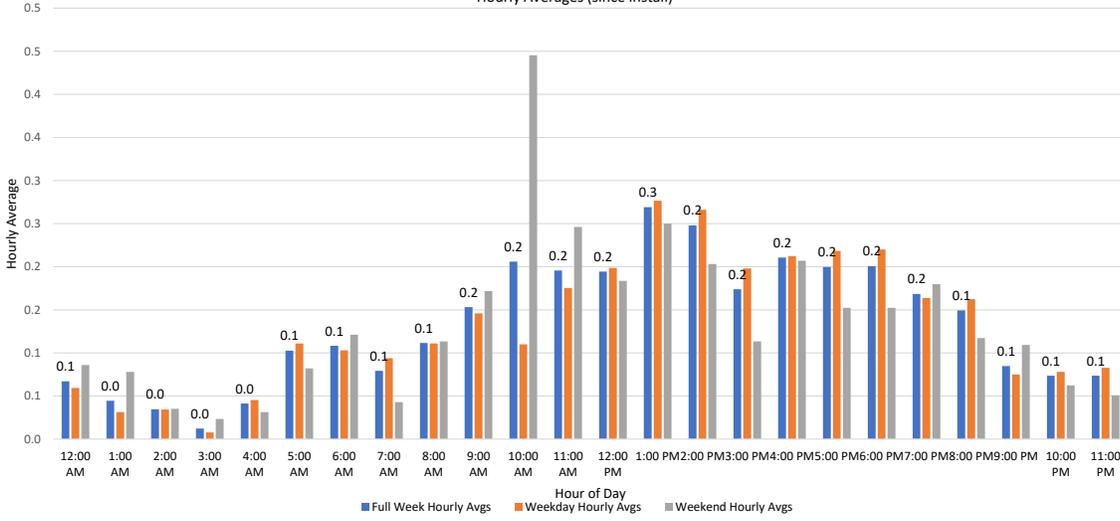


IGA (Old Hardin) Sidewalk
2018 Traffic Count Totals



Site Name	Total Count	Average	Wk. Day Avg	Wk. End Avg	Min	Date w/ Min Total	Max	Date w/ Max Total	Monthly Avg
Highway 87	749	24	27	6	5	12-Jan	82	30-Jan	62

Johnson Lane (Ace Hardware) Sidewalk
Hourly Averages (since install)



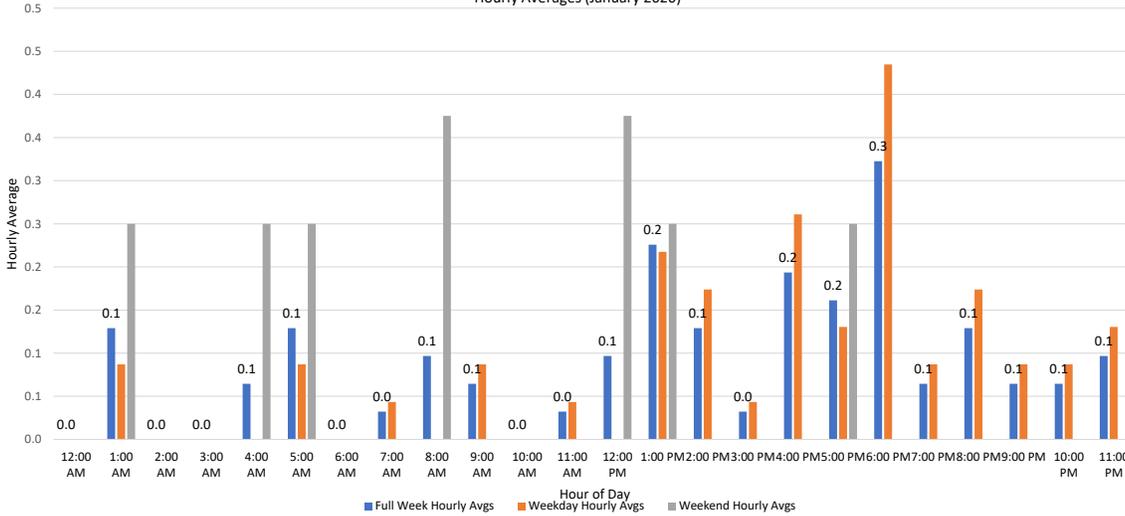
Hourly Statistics

	YTD	Month
Average	0.1	0.1
Median	0.1	0.1
STDV	0.1	0.1
Min	0.0	0.0
Max	0.3	0.3

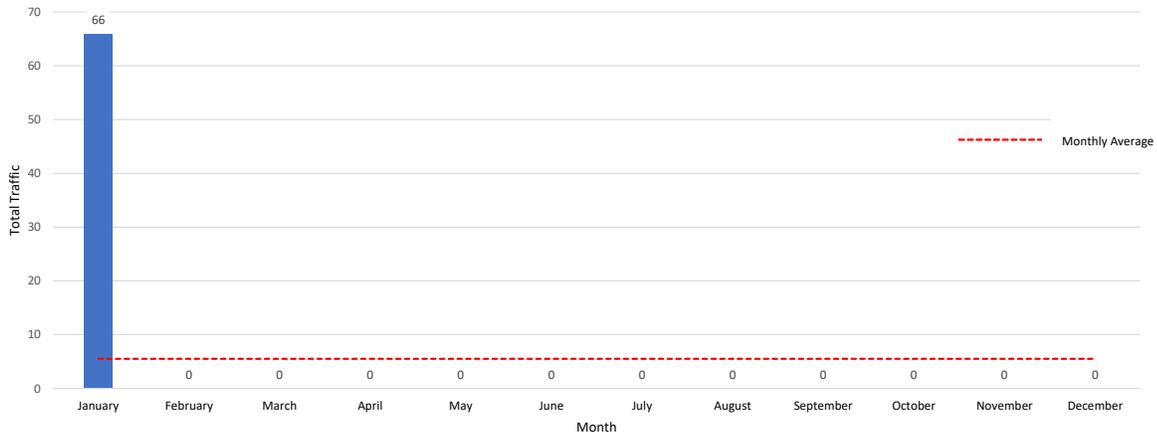
Field Notes

Sidewalk was completely covered in snow from street plowing in December 2018.

Johnson Lane (Ace Hardware) Sidewalk
Hourly Averages (January 2020)

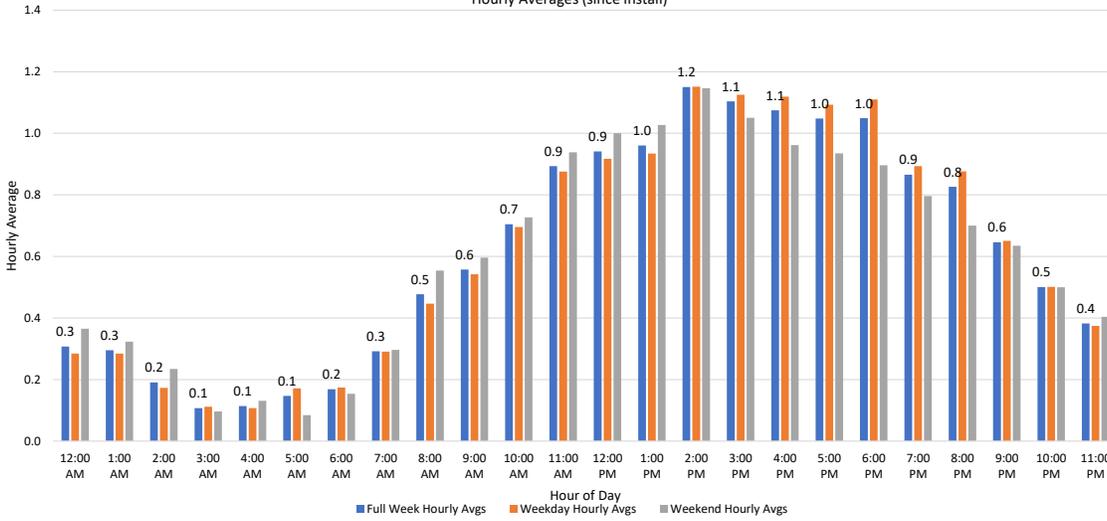


Johnson Lane (Ace Hardware) Sidewalk
Traffic Count Totals



Site Name	Total Count	Average	Wk. Day Avg	Wk. End Avg	Min	Date w/ Min Total	Max	Date w/ Max Total	Monthly Avg
Johnson Ln Sidewalk	66	2	2	2	0	01/07/18	10	01/28/18	6

Old Hardin Road Sidewalk
Hourly Averages (since install)

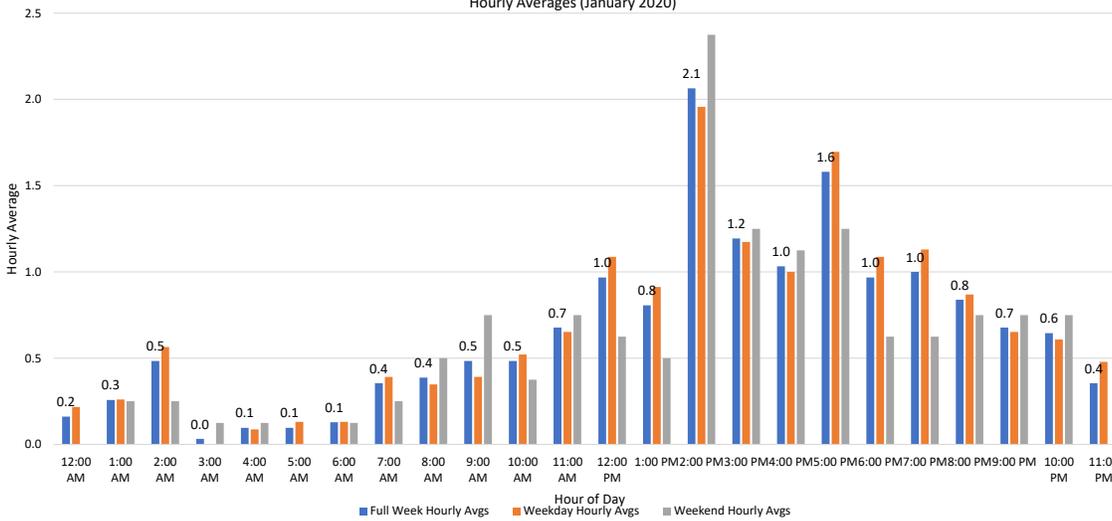


Hourly Statistics

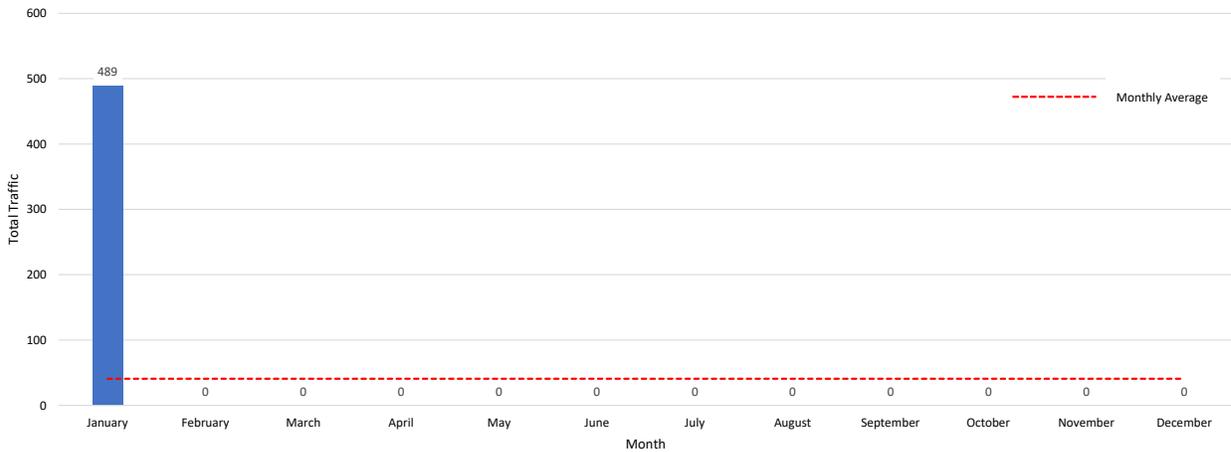
	YTD	Month
Average	0.6	0.7
Median	0.6	0.6
STDV	0.4	0.5
Min	0.1	0.0
Max	1.2	2.1

Field Notes

Old Hardin Road Sidewalk
Hourly Averages (January 2020)



Old Hardin Road Sidewalk
Traffic Count Totals



Site Name	Total Count	Average	Wk. Day Avg	Wk. End Avg	Min	Date w/ Min Total	Max	Date w/ Max Total	Monthly Avg
Old Hardin Rd	489	16	17	4	2	1/17/18	58	1/1/18	41

BILLINGS AREA

Wayfinding Signage Plan

JANUARY 2020

The Importance of Wayfinding

What is wayfinding?

An information system that helps people orient themselves in a physical space and navigate from place to place



...but it's more than just navigation.

The Importance of Wayfinding

Effective wayfinding...

- Influences visitors' and locals' perceptions of the overall convenience of a place
- Encourages people to consider more sustainable and healthy modes of transportation
- Increases the safety of pedestrians and bicyclists
- Normalizes walking and bicycling as legitimate modes of transportation
- Contributes to a recognizable brand or identity

About the Planning Process

Who was involved?

Billings MPO (Project Management)
Montana Department of Transportation
MET Transit
Public Works Engineering
Downtown Billings Alliance
Department of Parks, Recreation, and Public Lands
Billings TrailNet
Chamber of Commerce
Healthy by Design
Billings Bicycle/Pedestrian Committee
Consultant: Alta Planning + Design



Vision and Goals

The Billings wayfinding signage system should:

- Inspire confidence
- Promote trail etiquette
- Navigate gaps in the network
- Raise awareness of the trail system
- Provide iconic, attractive signage
- Consolidate the variety of current signs/brands into a more cohesive system
- Seek to integrate the Billings Heritage Tour Map mobile app into the physical signage



Wayfinding Best Practices

General principles



CONNECT PLACES

Facilitate travel between destinations and provide guidance to new destinations and transit.



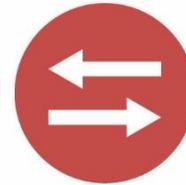
KEEP INFORMATION SIMPLE

Present information simply, using clear fonts and simple designs, so that it can be understood quickly.



MAINTAIN MOTION

Be legible and visible for people moving so that they can read the signage without stopping.



BE PREDICTABLE

Standardize the placement and design of signs so that signage patterns become predictable.



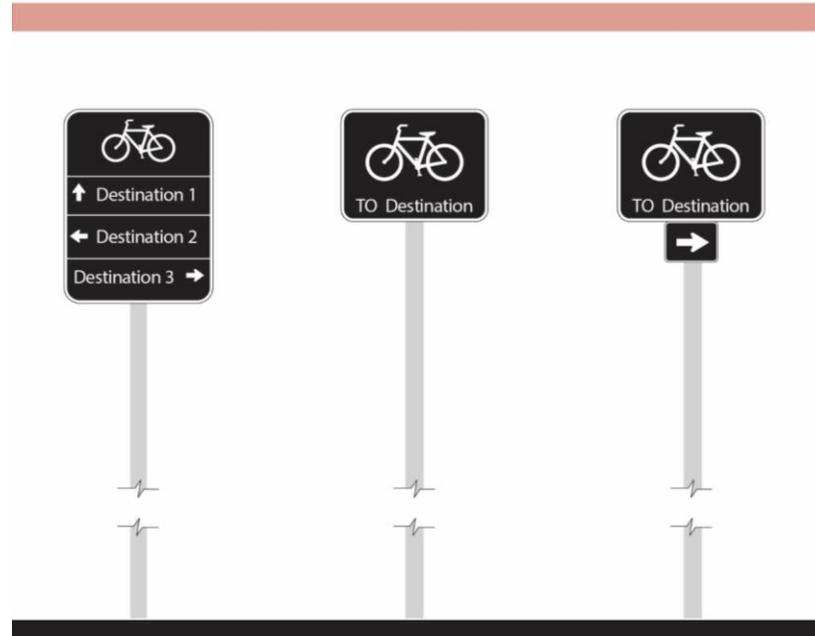
PROMOTE ACTIVE TRAVEL

Encourage increased rates of active transportation by helping people to realize they can walk and roll to the places they want to go.

Wayfinding Best Practices

Wayfinding elements

FUNDAMENTAL NAVIGATIONAL ELEMENTS



DECISION

Clarify route options where two or more routes converge, or at complex intersections.

CONFIRMATION

Placed after a turn or intersection to reassure path users that they are on the correct route.

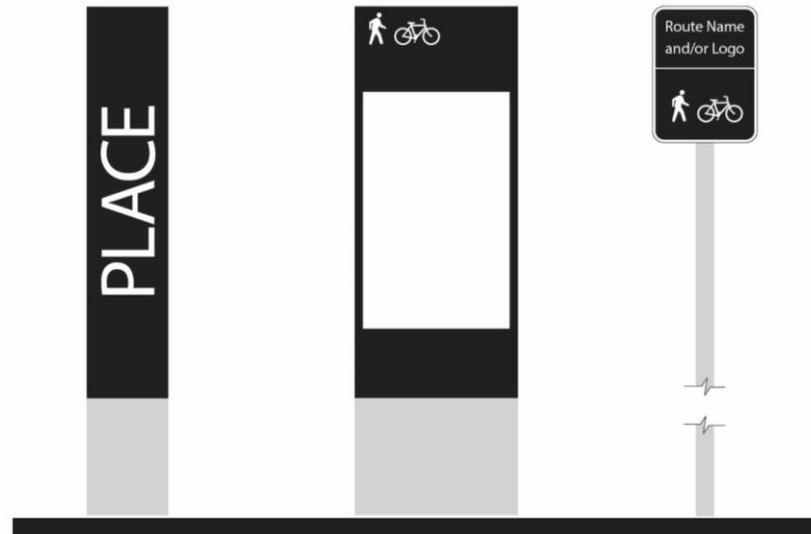
TURN

Placed before a turn or intersection to help users stay on the designated path.

Wayfinding Best Practices

Wayfinding elements

ACCESS ELEMENTS



GATEWAY MONUMENT

Define the entry into a distinct neighborhood, or mark trailheads, access points, and landmarks. Opportunity for community-directed placemaking and integrated artwork.

INFORMATION KIOSK

Provide system map and navigational information; most effective when placed in plazas, rest areas, or other locations where users may congregate, rest, or enter a trail or path.

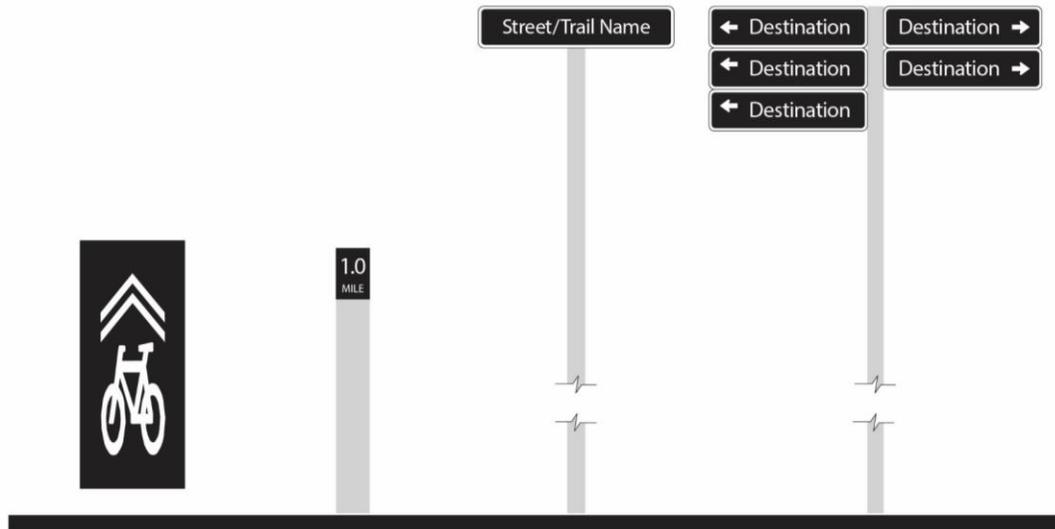
SECONDARY ACCESS

Mark entry to trails or paths at locations where limited user traffic may not necessitate as much information as information kiosks

Wayfinding Best Practices

Wayfinding elements

ENHANCED NAVIGATIONAL ELEMENTS



PAVEMENT MARKER

Reinforce route direction, bicyclist positioning, intermodal cooperation, and/or system branding

MILE MARKER

Reinforce system branding and orient users along off-street trails or paths

STREET/TRAIL INTERSECTION

Orient off-street trail users at street crossings and inform vehicular traffic of trail crossing

FINGERBOARD

Clarify route options where two or more routes converge, or at complex intersections.

Wayfinding Best Practices

MUTCD Conformance



- MUTCD standard
- Information is clear and consistent
- No regional or local identity modifications
- Some variation in size and shape
- No encouragement information

- Information consolidated into a single sign
- Variation in size and shape
- Travel times included

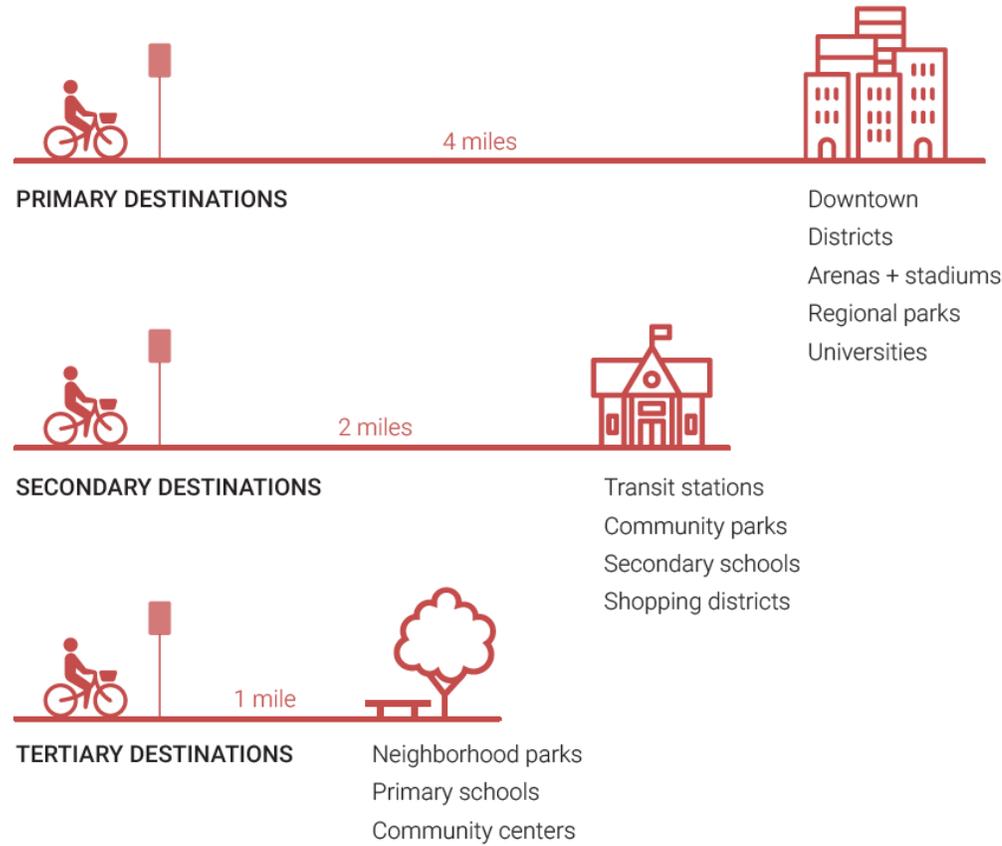
- Unique system or municipality identifiers or enhancement markers
- Custom color variations as allowed by MUTCD Community Wayfinding standards

- Custom sign post
- Variation in size and shape
- Decorative elements
- Arrows are not MUTCD standard

- Custom framing and support structures
- Unique sign shapes
- Non-standard colors and layout

Wayfinding Best Practices

Destination Hierarchy



Existing Conditions and Design Challenges

No encompassing brand

There are lots of entities at play.
How do we tie it all together?



Existing Conditions and Design Challenges

Varying contexts

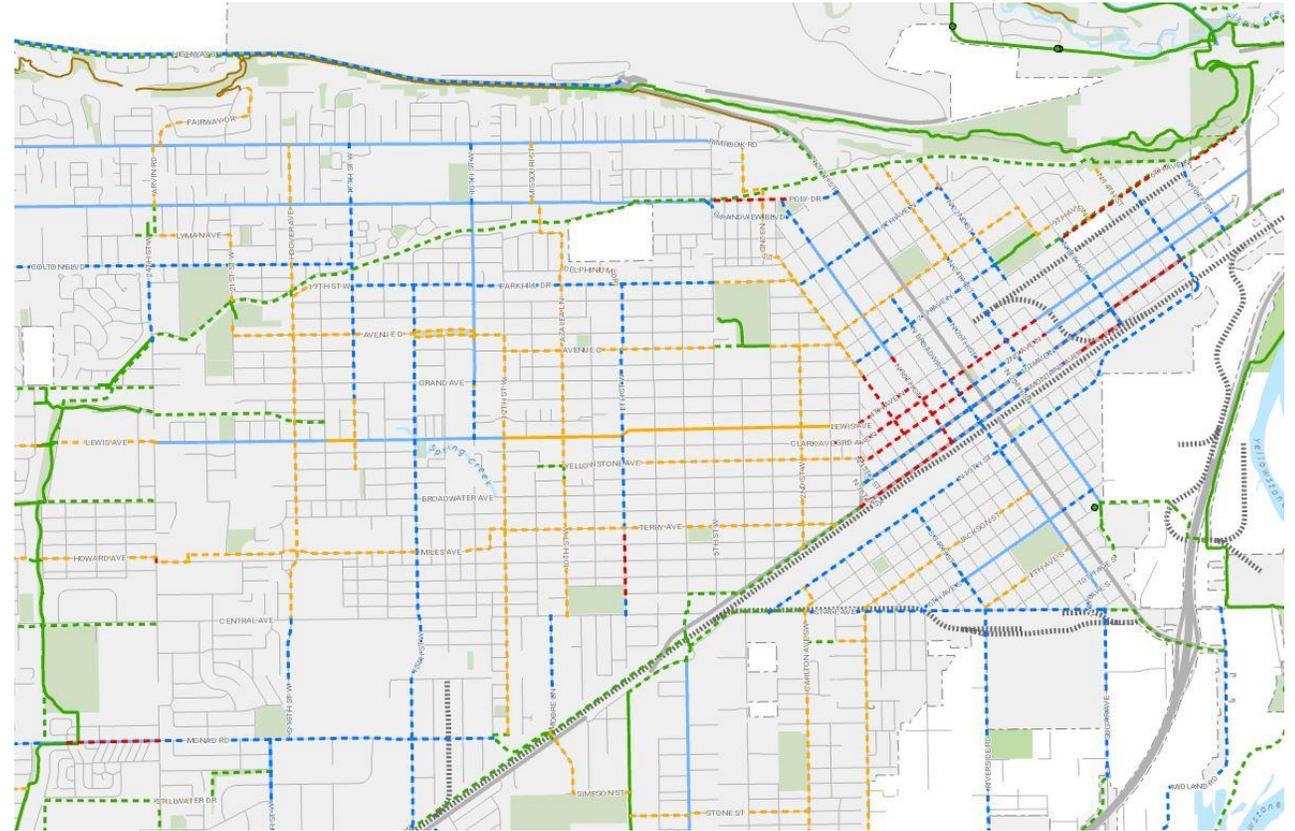
How can we create a wayfinding system that has a consistent aesthetic regardless of context (e.g. off-street trails vs. on-street bikeways)?



Existing Conditions and Design Challenges

An expanding network

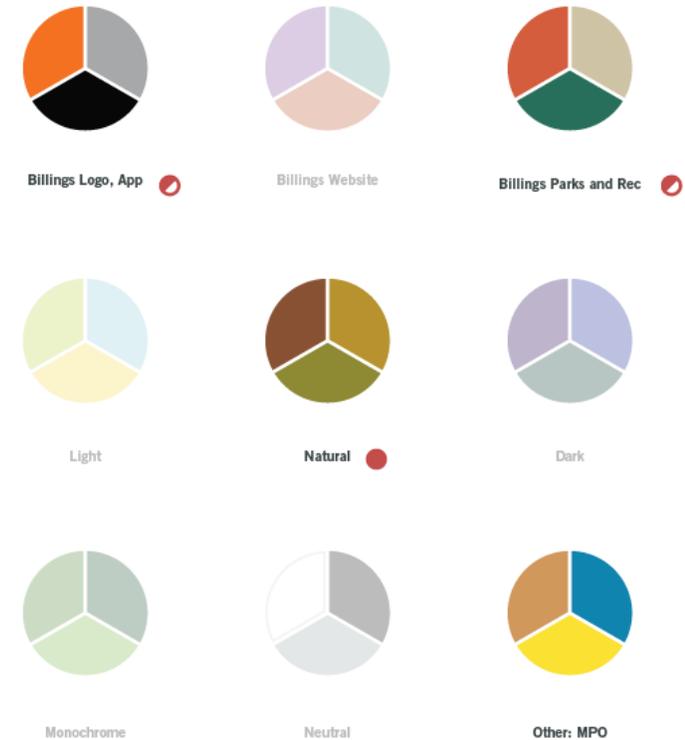
How can we develop a plan and signage system that is flexible enough to adapt to an expanding network of bikeways and trails?



Brand Development

Visual preference survey summary

- The brand should strike a balance between historic and modern
- Consider accessibility for users of all ages and abilities
- Prioritize/celebrate the natural setting over the “big city” context
- Natural colors and materials are preferred
- The brand should “look like Billings”



Brand Development

Signage concept #1: Modern Rustic

MATERIALS

Weathered metal / brick red, black painted metal, sandstone

USER EXPERIENCE

Peace and quiet

CHARACTER

Modern Rustic

BRANDING INSPIRATION

Heritage Trails, AECOM Parks and Recreation Signage Framework Plan



FUNDAMENTAL NAVIGATIONAL ELEMENTS



Brand Development

Signage concept #2: Warm Welcome

MATERIALS

Painted metal

USER EXPERIENCE

Vibrant / Family fun

THEMES

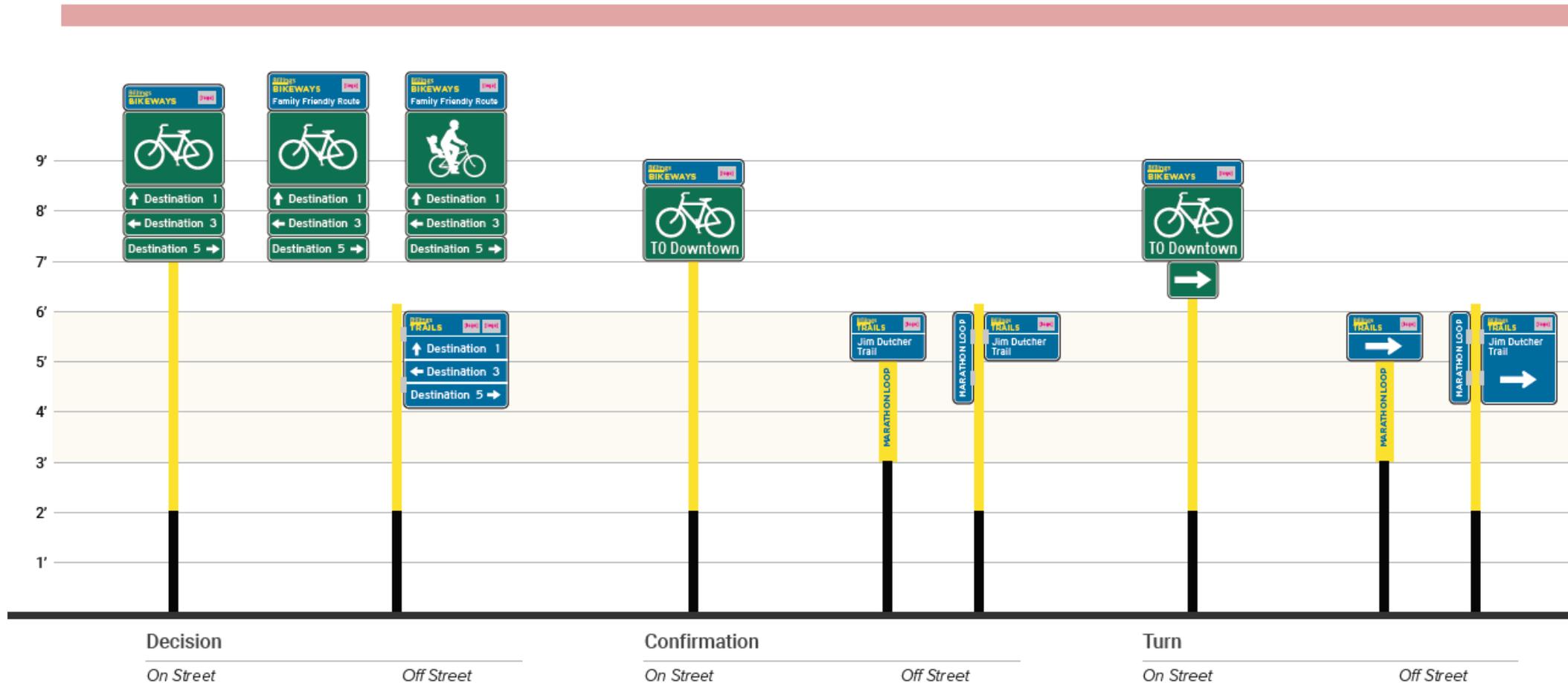
Friendly, inviting, bold

BRANDING INSPIRATION

Billings • Yellowstone County MPO,
Non-motorized Transportation app

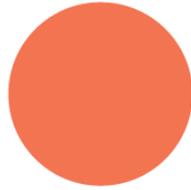
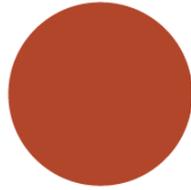


FUNDAMENTAL NAVIGATIONAL ELEMENTS

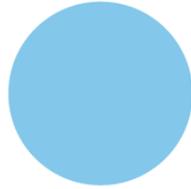
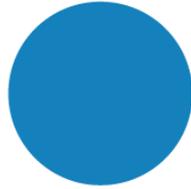


Brand Development

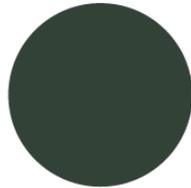
Preferred Concept: Color Palette



Brick, saddle,
sunset



Sky



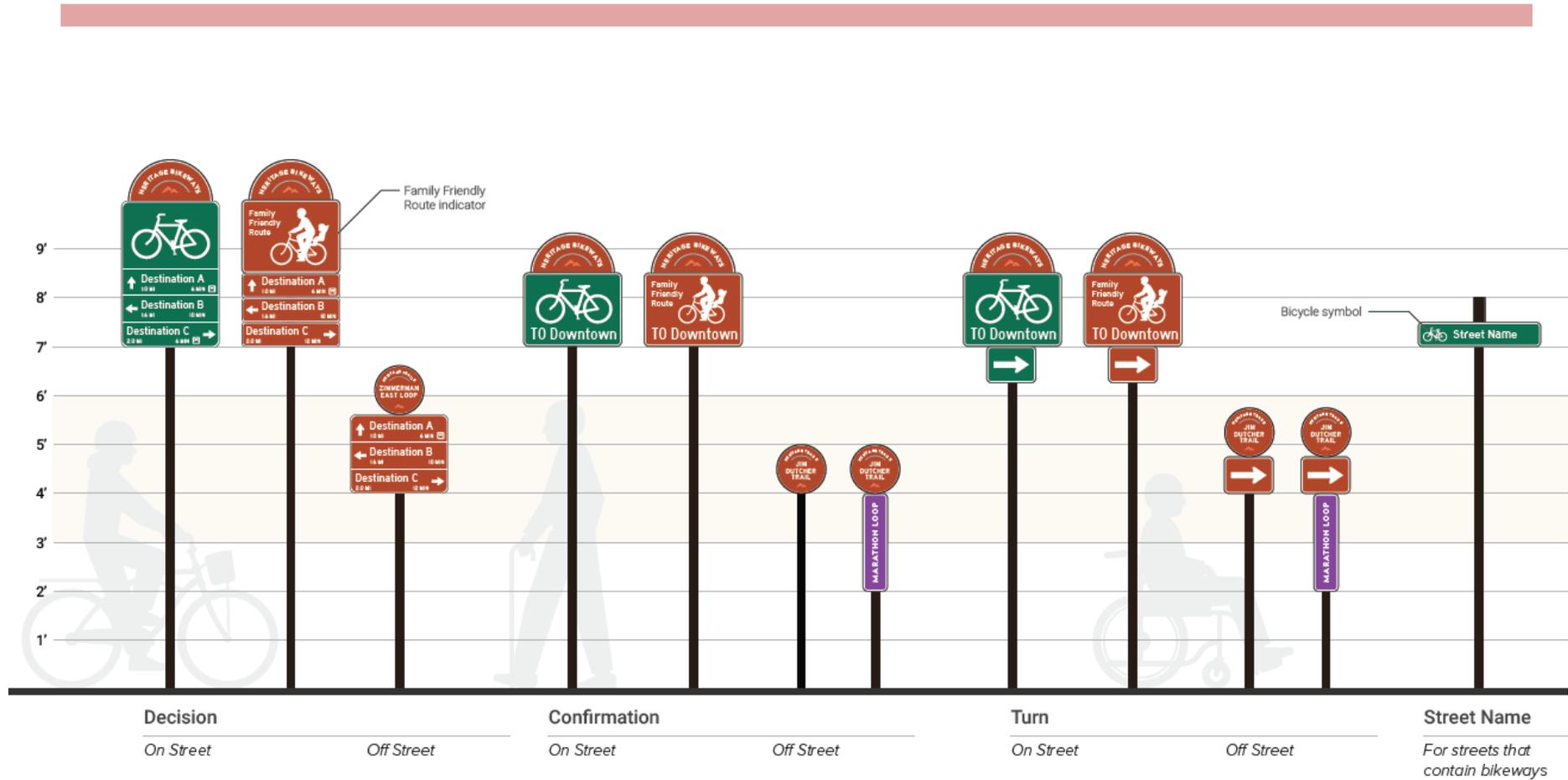
Scrub, shade,
grass, sandstone



Brand Development

Preferred Concept: Fundamental Elements

FUNDAMENTAL NAVIGATIONAL ELEMENTS

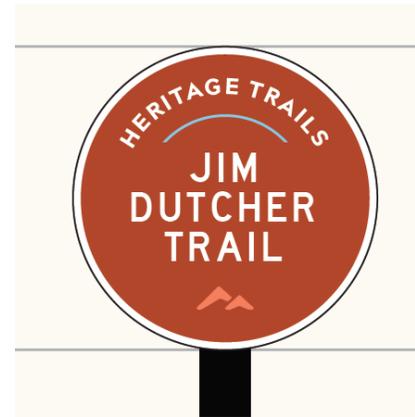


Brand Development

Enhancement Markers



“Heritage Bikeways” for on-street signs



“Heritage Trails” for off-street signs

Brand Development

“Family Friendly Route” Indicator



Decision Sign

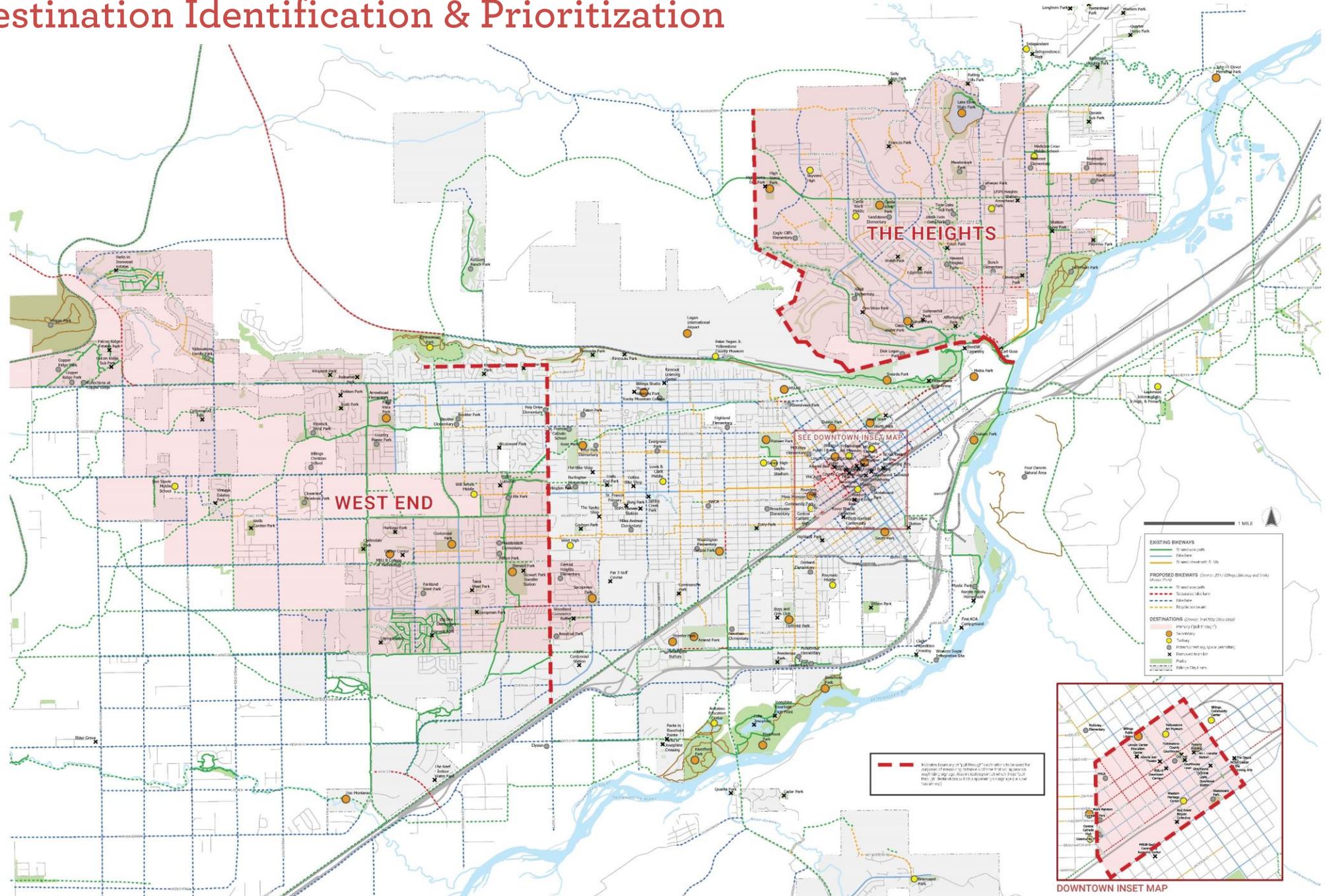


Confirmation Sign

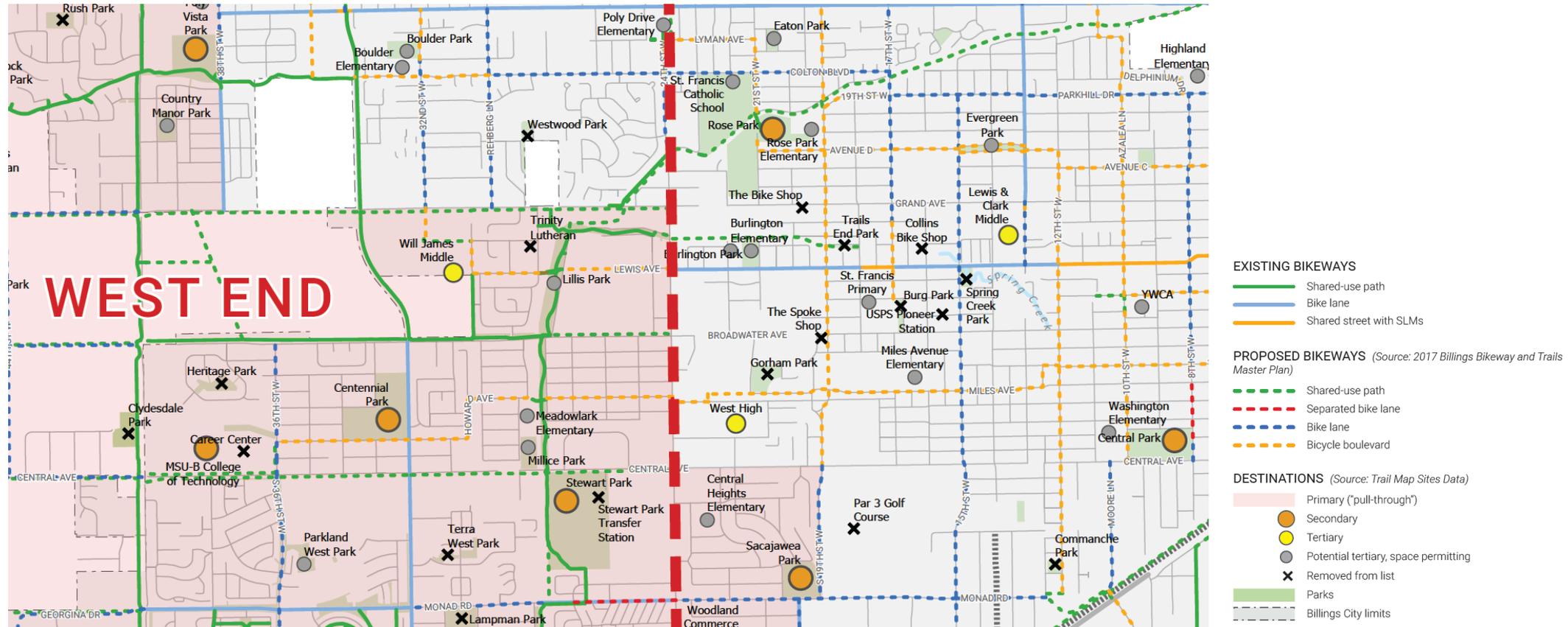


Turn Sign

Destination Identification & Prioritization



Destination Identification & Prioritization



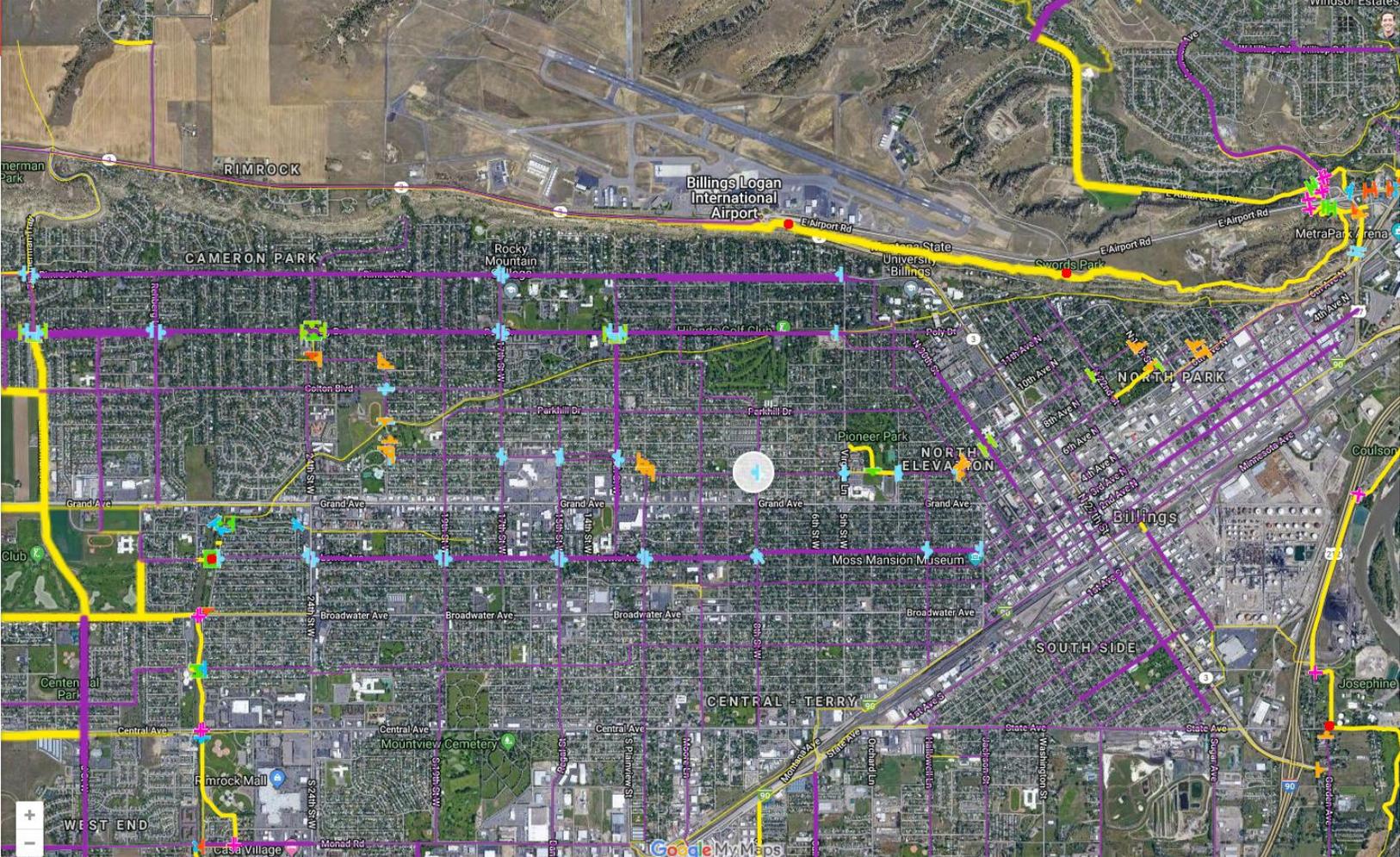
Implementation: Sign Placement

← Avenue C

name
Avenue C

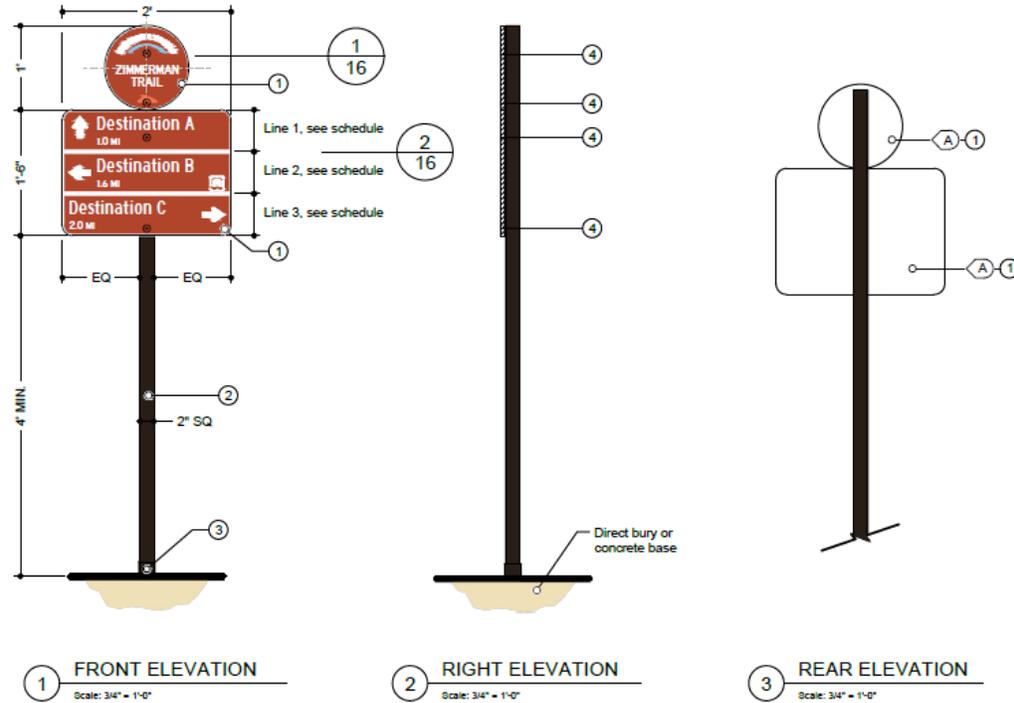
description
Avenue C

Corridor/Location: Avenue C
Installation No.: 02
Sign Type: Confirmation
On/Off Street: On
Family Friendly Route: TBD
Confirmation Destination: West End
Sign Topper: Bikeway
Mount: <Null>
Sign Facing: East
Rotation: 90
Sign Copy Complete: Yes
Notes: <Null>



Implementation: Fabrication Drawings

! All attachment details to be verified and engineered by contractor.



1. SIGN PANEL

MATERIAL: .080 gauge aluminum sign blank
 FABRICATION PROCESS: printed
 EDGES: routed, finished smooth
 GRAPHICS: printed latex on high intensity prismatic reflective vinyl
 COATING: 3m clear laminate with UV protection and scratch resistance
 FASTENERS: 1" drive rivets, 3/8" shaft

2. POST

MATERIAL: 2" square steel tubing, powder coated

3. POST ANCHOR

2-1/4" drivable anchor or breakaway post; verify location

4. RIVETS

Tamper-proof blind rivets; contractor to determine size; contractor to locate rivets in locations least likely to obscure sign copy
 MATERIAL: stainless steel

NOTES:

1. THESE DETAILS FOR REFERENCE ONLY; USE ART FILES FOR SIGN COPY EDITING AND PRINTING
2. SEE SIGN SCHEDULE FOR SIGN COPY, SYMBOLS, AND ICONS
3. FOR DESTINATION NAMES THAT EXCEED GIVEN DIMENSIONS/EXTENTS, ADJUST KERNING AND, IF NEEDED, TEXT HEIGHT; ANY ADJUSTMENTS TO TEXT KERNING AND/OR HEIGHT TO BE APPROVED BY CITY BEFORE PRINTING

Design illustrates possible mounting and/or mounting hardware appearance and are for reference only. All hardware to be sized by contractor. Shop drawing submittals shall detail the actual hardware and connections. All connections must be designed for all applicable loads. Shop drawings shall not compromise the visual appearance of the sign shown.

KEY NOTES



GENERAL NOTES

- These drawings are intended to illustrate design intent only and are not for construction. All final engineering and conditions of the project are the responsibility of the contractor. Shop drawings by the contractor must be submitted for approval, prior to proceeding with fabrication.
- The quality of fit and finish on the final product must meet or exceed the requirements of these design intent documents. Any variations to design, materials, or fabrication methods must be approved by the Owner or Representative.
- Welds: All welds shall be ground smooth, paint all seams.
- Hardware: All exposed hardware shall be tamper proof fasteners.
- All exposed edges painted to match adjacent face.
- Colors shown are for reference only and are subject to the limitations of the printing process. Refer to referenced color systems contained within these drawings for actual specifications.
- Scaled examples shown are for reference only, and do not necessarily reflect actual site conditions. Detailed site surveys may be required prior to fabrication and installation.
- Messages shown in these drawings are for general reference only. Refer to message schedules for actual required messages.

DRAFT

Billings Metropolitan Planning Organization
 CLIENT

Billings Wayfinding Signage Plan
 PROJECT

November 2019
 DOCUMENT ISSUE

Trail Decision Sign
 SHEET TITLE

15
 SHEET NUMBER

Implementation: Cost Estimates

Working with a local sign fabricator, the planning team developed planning-level implementation costs for the proposed wayfinding system. These per-unit costs include labor, posts, anchors, signs, concrete footings, and installation per City of Billings specifications, but do not include the following:

- Any potential required permitting or engineering fees
- Coring of concrete or any removal of concrete or asphalt required to install signs. Coring of concrete will be an additional \$100 per sign and cutting of asphalt will be an additional \$80.
- Reinforcing steel
- Staking of signs, unless otherwise agreed

The unit costs reflected in Table 2 represent the cost of ordering one unit. Ordering higher quantities will result in a lower per-unit cost (e.g. 25 signs may result in a 5% drop in unit cost). The savings in higher quantities is especially true for kiosks.

Wayfinding Element	Unit	Unit Cost
On-Street Elements		
Decision sign	Each	\$425
Confirmation sign	Each	\$395
Turn sign	Each	\$435
Street name sign	Each	\$410
Off-Street Elements*		
Mile marker	Each	\$505
Trail/street intersection sign	Each	\$485
Decision sign	Each	\$450
Confirmation sign	Each	\$420
Turn sign	Each	\$435
Trail etiquette sign	Each	\$450
Kiosk	Each	?

*Assumes powder coated steel tubing with no holes; option to use powder coated Telespar (with holes) posts for a cost savings of approximately \$15/unit (\$20/unit for mile markers).

Implementation: Maintenance

- Ongoing planning and design as system expands
- Sign inspection on an annual basis to clean, repair, or replace due to vandalism or unexpected damage
- Sign panels anticipated lifespan: 7-10 years (printed vinyl)
- Pavement markings to be inspected annually to assess fading

Thank you!